1. Find  if 

Sol:





1. Find the slope of circle at the point 

Sol:







1. Find  if 

Sol:











1. Find 

Sol:





1. Find 

Sol:



1. Find 

Sol:



1. Find 

Sol:





1. Find if 

Sol: we take natural logarithm of the both side











1. Find if 1)  2)  3) 

Sol:

1. 
2. 
3. 
4. Find if 1)  2) 

Sol:

1. 
2. 



1. Find if 1)  2)  3) 

Sol:

1. 
2. 
3. 
4. Find if 

Sol:











Or write  as a power of 











1. Find 

Sol:







1. If  find 

Sol:







1. Find 

Sol:







**Hint:**

1. 
2. 
3. 
4. Find or  

Sol:













1. Show for  that 

Sol:













1. Show that  satisfies 

Sol:

 





